

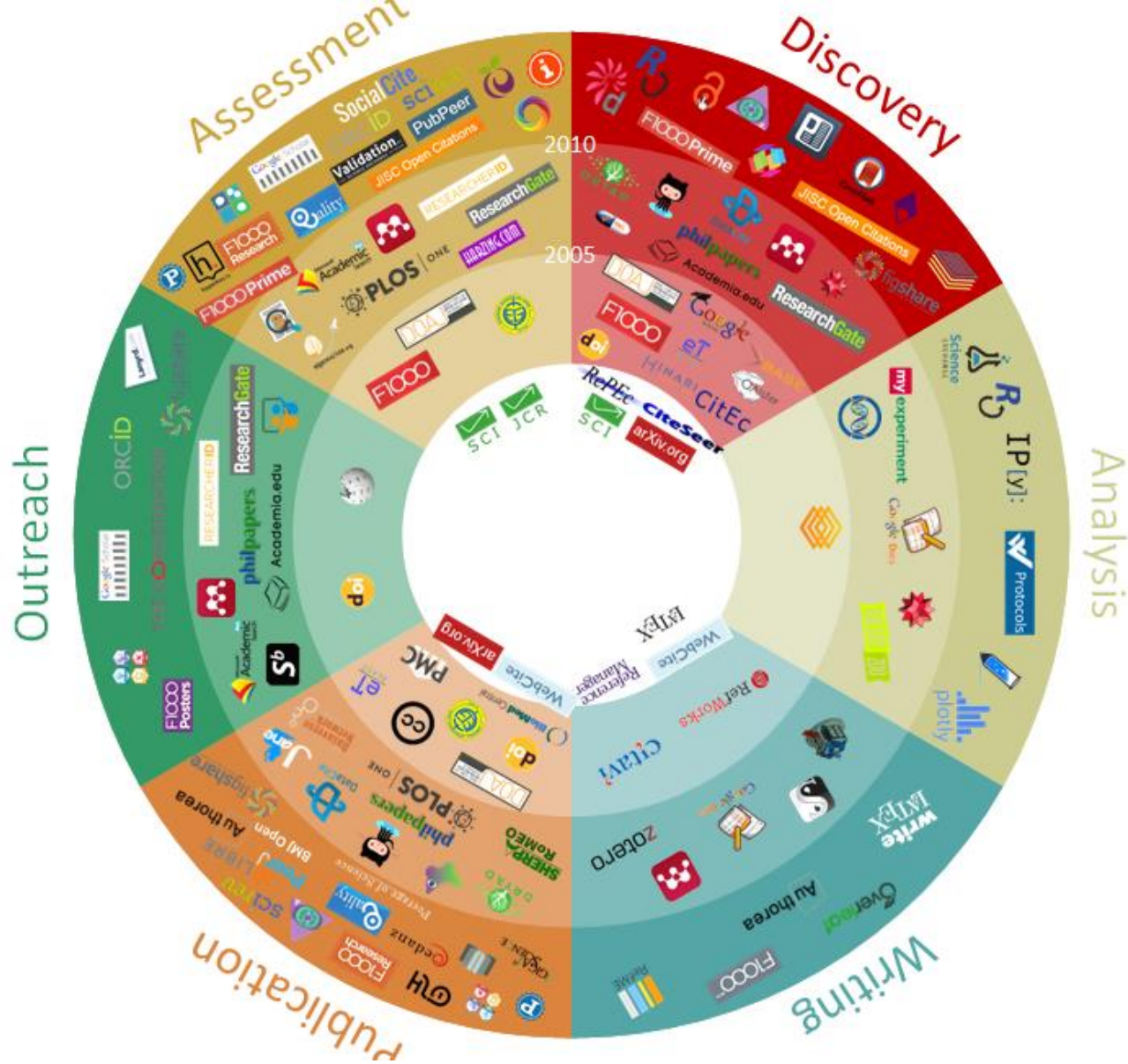


NEW DEVELOPMENTS IN CORE RESEARCH INFRASTRUCTURES: IDENTIFIERS FOR PEOPLE, FUNDING AND ORGANISATIONS

EARMA, BRUSSELS | APRIL 17 2018

Josh Brown
Director of Partnerships
j.brown@orcid.org
orcid.org/0000-0002-8689-4935

**What do we
mean by research
infrastructure?**



<https://101innovations.wordpress.com/>

PERSISTENT IDENTIFIERS FOR PEOPLE, PLACES, & THINGS

RESEARCHERID

GRID 


Crossref

Scopus[®]


Ringgold
Intelligent Decisions


DataCite
International Data Citation

ORCiD

Connecting Research
and Researchers

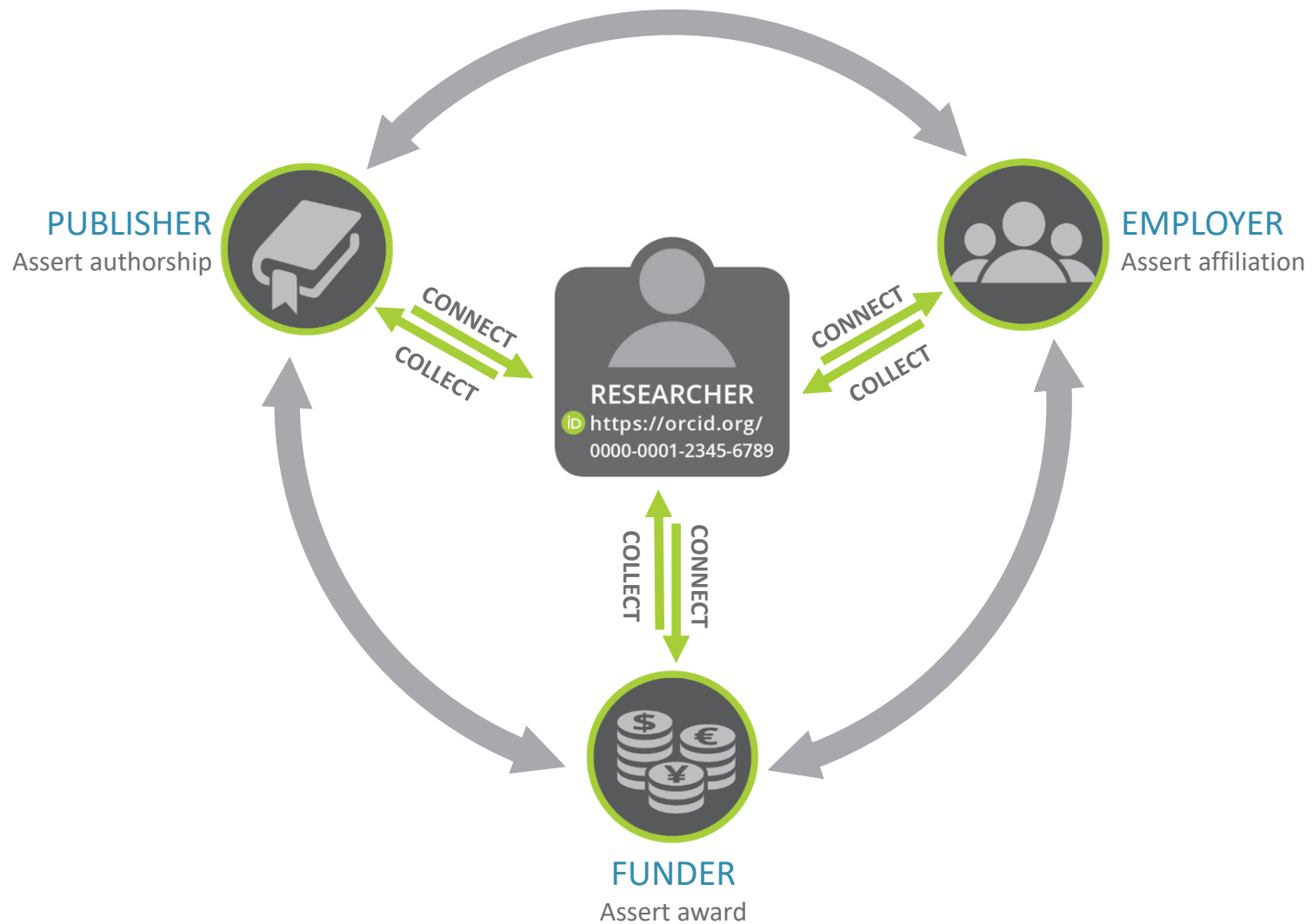


Open Researcher & Contributor Identifier

ORCID'S VISION IS A WORLD WHERE ALL WHO PARTICIPATE IN
RESEARCH, SCHOLARSHIP, AND INNOVATION ARE UNIQUELY
IDENTIFIED AND CONNECTED TO THEIR CONTRIBUTIONS AND
AFFILIATIONS ACROSS TIME, DISCIPLINES, AND BORDERS.



INTEROPERABILITY — ENTER ONCE REUSE OFTEN



WHAT IS ORCID?

- ✓ ORCID is an open, not-for-profit organization that serves the research community by collaborating and innovating with organizations to improve research infrastructure
- ✓ We provide researchers with a unique identifier, an ORCID iD, that reliably and clearly connects them with their research contributions and affiliations
- ✓ Hundreds of systems have now integrated ORCID iDs – from grant application and manuscript submission to CRIS and other research information management systems, and more!



ORCID BY THE NUMBERS

- 850+ members
 - 43 countries
 - 55% of membership in Europe
 - 16 consortia, including Belgium, Italy, Finland, Germany, Netherlands, Norway, Sweden, UK
- 550+ live integrations
- ~4.7m registrants
 - ~30m works (~12m unique DOIs)
 - 430k+ funding items
 - 2.4m+ education items
 - ~2m employment items

40% of records have at least one connection



User Facilities and Publications Working Group

USER FACILITIES AND PUBLICATIONS

- Government-funded laboratories award researchers use of facilities and equipment based on a competitive proposal process
- Government agencies support collections of samples used by researchers
- **Making accurate assessment of the scientific impact of these public investments difficult, if not impossible**

USER FACILITIES AND PUBLICATIONS

Pilot Project 1: Integrate identifiers into user facility registration and proposal processes


- Collect ORCID iDs
- Make the award citable
- Facilitate information sharing
- Reduce reporting burden



USER FACILITIES AND PUBLICATIONS

Jingxuan Ding

ORCID ID

 <https://orcid.org/0000-0003-3126-7165>

 Print view 

▼ Funding (1)

↕ Sort

Neutron Beam Award at Spallation Neutron Source (SNS)

Oak Ridge National Laboratory (Oak Ridge, TN, United States)

2017-01 to 2017-06 | Award

Award: 2017-A: CNCS

Alternate URL: neutrons.ornl.gov

Source: Oak Ridge National Laboratory

 Preferred source

It works! ORNL has implemented several of the workflows outlined in Steps 1 and 2



USER FACILITIES AND PUBLICATIONS

Pilot Project 2: Integrate award and facility IDs into the manuscript publication process.

- Collect ORCID iDs at time of manuscript submission or acceptance.
- Couple collection of ORCID iDs with other data from the author's ORCID record
- Amend JATS standard to enable collection of facility use information.

USER FACILITIES AND PUBLICATIONS

Pilot Project 2: Integrate award and facility IDs into the manuscript publication process.

- Collect ORCID iDs at time of manuscript submission or acceptance.
- Couple collection of ORCID iDs with other data from the author's ORCID record
- Amend JATS standard to enable collection of facility use information.

INITIAL REPORT OF THE USER FACILITIES GROUP:

Haak, et al. (2017), User Facilities and Publications WG: Findings and Opportunities. ORCID.

<https://doi.org/10.23640/07243.5623750.v1>

DESCRIBING RESOURCES

As a result of our conversation with the user facilities community, we are adopting a new data model that describes:

Infrastructure

A facility, building, or other physical space used to perform research.

Equipment

Hardware used for research purposes

DESCRIBING RESOURCES

As a result of our conversation with the user facilities community, we are adopting a new data model that describes:

Collection

An object or group of objects used for research purposes; can be tangible or digital.

Service

Services used for research purposes

<https://orcid.org/blog/2018/04/10/acknowledging-research-resources-new-orcid-data-model>



ORCID Reducing Burden and Improving Transparency



<https://orcid.org/content/orbit-project>

ORCID is a hub for research information.

We make connections using persistent identifiers.



Funders are hubs of activity and information.

Researchers, organisations, and agencies all interact with funders.

The ORBIT project rests on a simple idea:

By pooling our know-how and influence, we can deliver a huge step forward for the openness and reliability of research information.

WHY ORBIT?

ORBIT was developed as a result of discussions with the US National Institutes of Health.

NIH wanted to populate their SciENcv platform with data from the ORCID record.

They drew up a list of all the information they wanted to see in the ORCID record.

WHY ORBIT?

By pulling information from a researchers ORCID record, NIH wanted to save researchers time and effort, improve data quality and make information easier to re-use.

They wanted to lead by example.

However, we all recognised that one funder in one country could not do this alone.

WHO IS IN ORBIT?

- Australian Research Council
- CAPES (Brazil),
- CNPq (Brazil)
- CONCYTEC (Peru)
- FCT (Portugal)
- Howard Hughes Medical Institute (USA)
- Japan Science and Technology Agency
- Ministry of Business, Innovation and Employment (New Zealand)
- National Research Foundation (South Africa)
- NIH (USA)
- Research Councils UK
- Science and Technology Development Fund (Egypt)
- Swiss National Science Fund
- Wellcome Trust (UK)

WHO IS IN ORBIT?

- Altum
- CC Technology
- Crossref
- CSRA
- DataCite
- Digital Science
- E-Life
- Elsevier
- Europe PMC
- euroCRIS

ORBIT: AN OVERVIEW

The project has many parts. To manage these we have broken out plan down into four linked areas of activity.

- A wider Funder Working Group
- Data source analysis
- Building connections
- Improving Persistent Identifier coverage

ORBIT: AN OVERVIEW

The initial focus is on:

- Automatically populating funding applications with CV and career information
- Sharing grant funding information via the ORCID registry
- Extending the availability of research information, and making it easier to re-use

Organization IDs or “The Case of the Missing Leg”

THE PROBLEM...



THE PROBLEM...

Content
identifiers:
DataCite
Crossref



Contributor identifiers:
ORCID

THE PROBLEM...

Content
identifiers:
DataCite
Crossref



Organisation
identifiers:

Contributor identifiers:
ORCID

THE PROBLEM...

Content
identifiers:
DataCite
Crossref

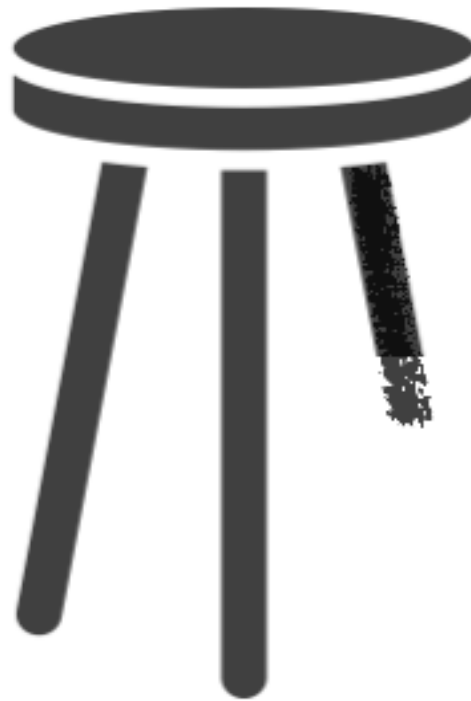


Contributor identifiers:
ORCID

Organisation
identifiers:

ISNI?
Ringgold?
IP Registry?
Funder Registry
IDs?
GRID?
OrgRef?
Open Corporates?
LEI?

THE PROBLEM...



THE PROBLEM

“Stakeholders interviewed for this study typically described identifying organisations as “a nightmare.”

JISC/CASRAI Organisation ID study

SEEKING A SOLUTION...



Crossref



DataCite

ORCID



SEEKING A SOLUTION...

- Gathered work from CASRAI, Jisc, NISO, ODIN, RDA & THOR.
- Assembled illustrative use cases
- Consulted with the community at CNI and Force11 in 2016
- Consulted with other players in the organisation identity space
- Consulted with our respective members.

ORGANIZATION IDENTIFIER WORKING GROUP

- Remit: to develop a plan to launch and sustain an open, independent, non-profit organization identifier registry that focuses on disambiguating researcher affiliations. This will include a business, governance and operations model, scope of an MVP, start up funding requirements and a plan to raise the required funds.
- Public request for expressions of interest to be on the **Working Group**

ORGANIZATION IDENTIFIER WORKING GROUP



Christopher Brown

Senior Co-design Manager,
Jisc



Tim Devenport

Lead Consultant to
ICEDIS, EDItEUR



Kristin Ratan, Consultant

Executive Director,
Collaborative Knowledge
Foundation



John Chodacki, Chair

Director, University of California
Curation Center (UC3), CDL



Senior Manager
Metadata, Springer
Nature



Arthur Smith

Lead Data Analyst
American Physical Society



Mike Frame

Chief of Scientific Data
Integration and Visualization,
U.S. Geological Survey (USGS)



**Andres
Mori**

Data Projects Lead,
Digital Science



Thomas Vestdam

Head of Product
Technology, Elsevier



Danny Goroff

Vice President and Program
Director, Alfred P. Sloan
Foundation



Paul Peters

Chief Executive Officer,
Hindawi Publishing



Simeon Warner

Director, Repository
Development, Cornell
University Library



President, Chief Financial &
Operating Officer, Ringgold



Andrew Pitts

Managing Director
Publisher Solutions
International/IP Registry



**Helen Szigeti,
Consultant**



WORKING GROUP OUTPUT

- Governance Principles and Recommendations - <https://doi.org/10.23640/07243.5402002.v1>
- Product Principles and Recommendations - <https://doi.org/10.23640/07243.5402047.v1>
- Request for Information - to solicit comment and interest from the broader research community in providing data, hosting, and/or resources to start up an open registry.

22 RFI RESPONSES

Australian National Data Service

The British Library

California Digital Library

CASRAI

Clarivate Analytics

Crossref

DataCite

Digital Science

euroCRIS

European Directory of Marine
Organisations (EDMO)

Foundation for Science and Technology -
National Scientific Computation

Global Legal Entity Identifier Foundation (GLEIF)

Inter-university Consortium for Political and Social
Research (ICPSR)

ISNI International Agency

IP-Registry (PSI Ltd)

Library and Information Centre, Hungarian Academy
of Sciences

North Rhine-Westphalian Library Service Centre

OCLC

Office of Scientific and Technical Information, DOE

ORCID

re3data

Ringgold



STAKEHOLDER MEETING: JANUARY 2018, GIRONA, SPAIN

1. High level review of the ORG ID Working Group documents
 - a) Governance Principles and Recommendations
 - b) Product Principles and Recommendations
2. Review of the RFI responses
3. Establishing a Governance structure for the Registry Initiative
4. Establish initial governing board
5. Presentations by organizations interested in serving as a host organization.
6. Next Steps

NEXT STEPS

- Steering group → Interim Executive Committee tasked with developing a proposal for standing up registry:
- Working Group + RFI respondents+ Org ID meeting participants = Interim Community Governing Council
- IEC to float the proposal with the IGC for comments then take steps to finalize the host organization.
- ORCID, DataCite and Crossref now discussing detailed proposals - **Onyar** is the working name

WHAT'S IN IT FOR EVERYONE?

Benefits for the community:

- An open research information infrastructure for the benefit of the entire community
- Encouraging the use of persistent identifiers and open assertions increases trust in research information
- Open identifier infrastructure can be used to build new research information tools and innovations



Thank you for helping us
enable researchers to spend
more time making
contributions and less time
managing them



Enter Once | Reuse Often

